

Lincoln-Lancaster County SAFE KIDS Coalition



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BICYCLE INJURY

Children ages 14 and under are five times more likely to be injured in a bicycle-related crash than older riders.

- Males account for 83 percent of bicycle-related deaths and 71 percent of nonfatal injuries among children ages 14
 and under. Children ages 10 to 14, especially males, have the highest death rate of all ages from bicycle-related
 head injury.
- More children ages 5 to 14 are seen in hospital emergency rooms for injuries related to biking than any other sport.

BICYCLE HELMET EFFECTIVENESS

- Bicycle helmets have been shown to reduce the risk of head injury by as much as 85 percent and the risk of brain
 injury by as much as 88 percent. Bicycle helmets have also been shown to offer substantial protection to the
 forehead and midface.
- Correct fit and proper positioning are essential to the effectiveness of bike helmets at reducing injury. One study
 found that children whose helmets fit poorly are at twice the risk of head injury in a crash compared with children
 whose helmet fit is excellent. In addition, children who wear their helmets tipped back on their heads have a 52
 percent greater risk of head injury than those who wear their helmets centered on their heads.
- It is estimated that 75 percent of fatal head injuries among child bicyclists could be prevented with a bicycle helmet.
- Universal use of bicycle helmets by children ages 4 to 15 could prevent between 135 and 155 deaths, between 39,000 and 45,000 head injuries, and between 18,000 and 55,000 scalp and face injuries annually.
- Child helmet ownership and use increases with parent income and education levels, yet decreases with the child's
 age. Children are more likely to wear a bicycle helmet if riding with others (peers or adults) who are also wearing
 one. In a national survey of children ages 8 to 12, 53 percent reported that a parental rule for helmet use would
 persuade them to wear a helmet, and 49 percent would wear a helmet if a state or community law required it.

BICYCLE HELMET LAWS AND REGULATIONS

- Nineteen states, the District of Columbia and numerous localities have enacted some form of bicycle helmet legislation. Thirteen of these twenty laws cover children ages 15 and under. At least six states now require children to wear a helmet while participating in other wheeled sports (e.g., scooters, inline skates, skateboards).
- Various studies have shown bicycle helmet legislation to be effective at increasing bicycle helmet use and reducing bicycle-related death and injury among children covered under the law. One example shows that in the five years following the passage of a state mandatory bicycle helmet law for children ages 13 and under, bicycle-related fatalities decreased by 60 percent. Police enforcement increases the effectiveness of these laws.
- One recent study reported that the rate of bicycle helmet use by children ages 14 and under was 58 percent
 greater in a county with a fully comprehensive bike helmet law than in a similar county with a less comprehensive
 law.

HEALTH CARE COSTS AND SAVINGS

- The total annual cost of traffic-related bicyclist death and injury among children ages 14 and under is more than \$2.2 billion.
- Every dollar spent on a bike helmet saves society \$30 in direct medical costs and other costs to society.
- If 85 percent of all child cyclists wore helmets in one year, the lifetime medical cost savings could total between \$109 million and \$142 million.
- A review of hospital discharge data in Washington state found that treatment for nonfatal bicycle injuries among children ages 14 and under costs more than \$113 million each year, an average of \$218,000 per injured child.

PREVENTION TIPS

- Every time you ride, wear a bicycle helmet that meets or exceeds the safety standards developed by the U.S.
 Consumer Product Safety Commission. A helmet should sit on top of your head in a level position, and it should
 not rock forward and backward or side to side. The helmet straps must always be buckled but not too tightly.
 Ensure proper bike fit by bringing the child along when shopping for a bike. Buy a bicycle that is the right size for
 the child, not one he will grow into. When sitting on the seat, the child's feet should touch the ground.
- Learn the rules of the road and obey all traffic laws. Ride on the right side of the road, with traffic, not against; use appropriate hand signals; respect traffic signals; stop at all stop signs and stop lights; and stop and look both ways before entering a street. Cycling should be restricted to sidewalks and paths until a child is age 10 and able to show how well he or she rides and observes the basic rules of the road. Adult supervision is essential until the traffic skills and judgment thresholds are reached by each child.

